

AGENDA OF THE JOINT MADD-Gen/DiDy Workshop at the SFU Burnaby Campus

Monday April 25 to Wednesday April 27, 2016

Monday April 25th

Room 9204, TASC Building 1, SFU Burnaby Campus

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| 9:00am – 9:30am | Welcome & opening remarks: Prof. Martin Ester , and Prof. Cenk Sahinalp |
| 9:30am – 10:30am | MADD-Gen SFU Student Presentations:
H.Tong : "An accurate and confident prediction of drug-target binding affinity"
A.Yue : "Analyzing large-scale flow cytometry data: challenges and solutions" |
| 10:30am – 11:00am | Coffee/Tea Break |
| 11:00am – 12:30pm | MADD-Gen SFU Student Presentations:
Ehsan Haghshenas : "Hybrid error correction of long noisy reads"
Ermin Hodzic : "HITnDRIVE: Patient-Specific Multi-Driver Gene Prioritization for Precision Oncology"
Salem Malikic : "Clonality Inference from Single Tumor Samples Using Low Coverage Sequence Data" |
| 12:30pm – 2:00pm | Lunch Break |
| 2:00pm – 3:00pm | MADD-Gen program faculty, research presentations
Prof. Leonid Chindelevitch "Genomic insights into infectious disease epidemics"
Prof. Alex Wyatt "Predicting cancer patient outcomes through deep sequencing of liquid biopsies" |
| 3:00pm – 5:00pm | Committee Meetings (MADD-Gen SFU students and supervisors) |

Tuesday April 26th

Room 9204, TASC Building 1, SFU Burnaby Campus

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| 9:00am – 10:30am | DiDy Bielefeld Student Presentations:
Nina Luhmann "Medieval genomics: scaffolding of ancient contigs"
Benedikt Loewes "Strategies for the identification of common RNA motifs in highly variable sequences"
Guillaume Holley "BFT-Comp: Alignment-free and reference-free compression of pan-genome sequencing reads" |
| 10:30am – 11:00am | Coffee/Tea Break |
| 11:00am – 12:00pm | DiDy Bielefeld Student Presentations:
Benedikt Brink "Automated clustering of ddPCR Data"
Madis Rummig "MegaStone: A comprehensive resource for metadata-enriched metagenome analysis" |
| 12:00pm to 12:40pm | Pre-Application Workshop DiDy candidate presentations:
David Heller "Structure-sequence discovery from high-throughput RNA-binding protein data" |

	Roman Schulte-Sasse “Detecting structural specifics of DHSs from sequences along using deep convolutional belief networks”
12:45pm – 2:00pm	Lunch Break
2:00pm – 4:00pm	Committee Meetings (DiDy Bielefeld students and supervisors)
4:00pm, onwards	Social Event
Wednesday April 27th	
	Industry Day at IRMACS Presentation Theatre, ASB10900 and the Applied Science Building Atrium (ASB9000 South)
9:00am – 9:15am	Opening remarks by: Dr. Megan Griffith , Research Partnerships Promotion Officer, National Sciences & Engineering Research Council of Canada (NSERC) and Dr. Annette Doll-Sellen , Director, German Research Foundation – DFG International Affairs, New York, N.Y.
9:15am – 09:55am	Invited talk "Contextual Genomics - computation biology challenges in genetic-based cancer tests" by Dr. Rosalia Aguirre Hernandez of Contextual Genomics, Vancouver, B.C.
10:00am – 10:40am	Invited talk “Translating big genomics data into the clinic: the story of the Decipher prostate cancer genomic test” by Dr. Mohammed Alshalalfa , Senior Bioinformatician, Genome DX Biosciences Inc., Vancouver
10:40am – 11:10am	Coffee/Tea Break
11:10am – 11:50am	Invited talk “Distilling experimental data into actionable drug discovery” by Dr. Daniel Ziemek , Director, Data Science & Computational Biology at Pfizer R&D, Berlin
11:50am – 12:30pm	Invited talk "Liquid Biopsy: The Next Gold Standard for Diagnosis" by Dr. Raheleh Salari , Natera Inc, California
12:30pm – 12:35pm	Remarks by Josef Beck , Consul General of the Federal Republic of Germany in Canada
12:35pm – 1:30pm	Panel Discussion with invited speakers. Moderated by Dr. Martin Ester .
1:30pm – 2:30pm	Lunch Break, IRMACS Atrium
2:30pm – 4:30pm	Poster Session – Presented by MADD-Gen and DiDy program students, and invited industry staff. Location: Applied Sciences South Atrium.
4:45pm – 6:15pm	Joint Program Faculty Meeting
7:00pm – 9:00pm	Farewell Dinner